

ZIL'BERBERG, S.D., inzh.; KLYUSHNIK, Yu.P., inzh.

Experience in electric heating of reinforced concrete products  
in molds. Bet. 1 zhel.-bet. 9 no.10:449-450 0 '63.

(MIRA 16:12)

ZIL'BERBERG, S.D., inzh.

Calculating the electric curing of concrete in curing  
chambers. Trudy GISI no.47:48-62 '64.

(MIRA 18:11)

USSR/Human and Animal Morphology - Normal and Pathological.  
Pathological Anatomy

S

Abs Jour : Ref Zhur Biol., No 23, 1958, 106044

Author : Zil'berberg, S.I., Cherkasskiy, L.A.

Inst :

Title : Morphological Changes of the Arteries and Veins of the Brain in Hypertensive Disease

Orig Pub : Sb. nevropatol. i psikiatrii, 1957, 57, No 8, 979-985

Abstract : Dates of the microscopic examination of patients 41 to 74 years old, who died from hypertensive disease with a cerebral syndrome, are presented. It was determined that the lesions of the arteries and veins are essentially identical and manifest themselves in dystonia of the vessels, and diapedetic hemorrhages, protein infiltration of the wall of the blood vessels and formation of dissecting aneurysms. Functional and dynamic changes and sclerosis are more common in veins, while deposition

Card 1/2

ZIL'BERBERG, S.I.; CHERKASSKIY, L.A.

Morphological changes in the cerebral arteries and veins in hypertension [with summary in French]. Zhur.nevr. i psikh. 57 no.8: 979-985 '57. (MIRA 10:11)

1. Nauchno-issledovatel'skiy psikh-nevrologicheskiy institut imeni V.M.Bekhtereva, Leningrad.

(HYPERTENSION, pathology,

brain vasc. system (Rus))

(BRAIN, blood supply.

vasc. pathol. in hypertension (Rus))

ZIL'BERBERG, S. I.

Zil'Berberg, S. I. - and Zhabotinskiy, Yu. M. - "Pathomorphology of the knots of the solarplexus, which have been removed through operations in connection with hypertonic affection," In symposium: VIII Sessiya Neyrokhirurg. soveta i Leningr. in-ta neyrokhirurgii, (Akad. med. nauk SSSR), Moscow, 1948, p. 78-86

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nukh Statey, No. 6, 1949).

ZIL'BERBERG, S. I.

Zil'Berberg, S. I. and Kokin, M. I. - "Some data on neurological clinic in hypertonic affection (Toward the problem of surgical treatment)," In symposium: VIII Sessiya Neyrokhirurg. soveta i Leningr. in-ta neyrokhirurgii (Akad. med. nauk SSSR), Moscow, 1948, p. 55-57

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'rykh Statey, No. 6, 1949).

ZIL'BERBERG, S. I.

Zil'berberg, S. I. and Kokin, M. K. - "Some data on neurological clinic during hypertonia, treated by surgical means," Trudy Leningr. gosspitalya dlya lecheniya invalidov Otechestv. voyny, Leningrad, 1948, p. 295-305

SO: U-3950, 16 June 53, )Letapis, 'Zhurnal 'Nykhs Stsey, No. 5, 1949).

PROCESSIES AND PROPERTIES INDEX																									
1ST AND 2ND CROSS													3RD AND 4TH CROSS												
<p><i>ca</i></p> <p>Ferrite-pearlite forged iron as a substitute for nonferrous metals. V. Zil'berberg. <i>Nesov's Tekhnika</i> 1940, No. 11, 14, 21. <i>Pe</i> were made under the same conditions for wear resistance with low-Sn bronze. Alkum and ferrite-pearlite forged Fe. The Fe contg. 60-80% pearlite was 4.5 times more wear-resistant than ordinary forged Fe and withstood specific pressures of up to 60 kg./sq. cm. The material can also be used as an antifriction substitute for bronze and is recommended for use in cases where <i>pe</i> does not exceed 60 kg. m./sec./sq. cm. Best structure was shown for specimens contg. 55-75% pearlite and having Brinell hardness of 150-167. H. Z. K.</p>																									
A.S.N.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION																									
10000 STRONG													10000 STRONG												
10000 STRONG													10000 STRONG												



ZIL'BERBERG, V.

Comprehensive improvement of intraplant transportation. Sots.  
trud 7 no.9:47-51 S '62. (MIRA 15:9)

1. Zamestitel' glavnogo inzhenera Gor'kovskogo avtomobil'nogo  
zavoda.  
(Gorkiy--Automobile industry) (Material handling)

ZIL'BERBERG, V. I.

Ex 52T16

USSR/Electricity  
Rotors  
Coils-Winding

Dec 1947

"New Methods in Rewinding Rotors with Aluminum Coils,"  
V. I. Zil'berberg, Engr; A. O. Schmidt, Gor'kiy Auto-  
mobile Works imeni V. M. Molotov, 1 p

"Prom Energetika" No 12

Briefly describes repairs made on housing of short-  
circuit rotor at one of the plants GAW imeni V. M.  
Molotov. Although a rotor with an aluminum housing  
usually is considered very durable, and repairs on  
this type of assembly are considered uneconomical,  
at times they are necessary in spite of high cost in-  
volved.

FDB

52T16

ZIL'BERBERG, V.I.

Bright outlook. Mashinostroitel' no.4:6-9 Ap '60.  
(MIRA 13:6)

1. Zamestitel' glavnogo inzhenera Gor'kovskogo avtozavoda.  
(Gorkiy--Automobile industry)

ZIL'BERBERG, V.I., inzh.

Mechanization of loading, unloading and conveying operations at  
the Gorkiy Automobile Plant. Mekh.i avtom.proizv. 16 no.9;  
29-33 S '62. (MIRA 15:9)

(Gorkiy--Automobile industry)  
(Loading and unloading--Equipment and supplies)  
(Conveying machinery)

ZIL'BERBERG, V.I.; ROZNO, L.I.; GULYAYEV, A.I.; TSYRLIN, M.I.;  
BOBKOV, L.S., inzh., retsenzent; MANUYKOV, P.N., inzh.,  
red.

[Overall mechanization and automation of painting operations] Kompleksnaia mekhanizatsiia i avtomatizatsiia okrasochnykh rabot. Moskva, Mashinostroenie, 1965. 146 p.  
(MIRA 18:6)

ALEXHIN, B.; ZIL'BERBERG, Ya.

Automatic control of refrigerating plants. Mias.ind. SSSR 31  
no.6:10-11 '60. (MIRA 13:12)

1. Odesskiy proyektno-konstruktorskiy institut pishchevoy promysh-  
lennosti.

(Meat industry--Equipment and supplies)  
(Refrigeration and refrigerating machinery)  
(Automatic control)

ZIL'BERBERG, Ya.; TUL'CHINSKIY, Yu.

Nomogram for calculating the consumption of cold in cooling  
units. Mias. ind. SSSR 32 no.4:27-29 '61. (MIRA 14:9)  
(Cold storage warehouses)

IRZHEVSKIY, V.; ZIL'BERBERG, Ya.; KOMEYKO, A.

Preparation of direct ammonia cooling systems for an over-all automation.  
M<sub>1</sub>as.ind. SSSR 34 no.1:35-39 '63. (MIRA 16:4)

1. Odesskiy proyektno-konstruktorskiy institut avtomatizatsii pishchevoy  
promyshlennosti.

(Refrigeration and refrigerating machinery)

(Automation)



*ZIL'BERBERG, Ya.G.*  
GORELIK, A.M., inzhener; OSIPYAN, A.V., kandidat tekhnicheskikh nauk; otvetstvennyy redaktor; ZIL'BERBERG, Ya.G., inzhener; ERILING, N.R., doktor tekhnicheskikh nauk, professor; KALISH, G.G., doktor tekhnicheskikh nauk, professor; MEZIN, I.S., doktor tekhnicheskikh nauk; PEVZNER, Ya.M., doktor tekhnicheskikh nauk; KHRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor; BRYZGOV, N.N., kandidat tekhnicheskikh nauk; KOZLOVSKIY, I.S.; kandidat tekhnicheskikh nauk; LYTKIN, I.I., kandidat tekhnicheskikh nauk; RAMAYYA, K.S., kandidat tekhnicheskikh nauk; BUTYILIN, A.G., tekhnicheskiiy redaktor; MATVEYEVA, Ye.N.; tekhnicheskiiy redaktor.

The effect of vertical forces on automobile wheels. Trudy NAMI no.65:1  
'52. (MLRA 8:11)

1. Direktor NAMI (for Osipyan)  
(Automobiles--Wheels)

MINKIN, M. L., kandidat tekhnicheskikh nauk; TRAKTOVENKO, I. A., kandidat tekhnicheskikh nauk; OSIPIYAN, A. V., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; ZIL'BERBERG, Ya. G., inzhener, sekretar' BRILING, N. R., doktor tekhnicheskikh nauk; KALISH, G. G., professor, doktor tekhnicheskikh nauk; PEVNER, Ya. M., doktor tekhnicheskikh nauk; RAMAYYA, K. S., doktor tekhnicheskikh nauk; KHRUSHCHEV, M. M., professor, doktor tekhnicheskikh nauk; KOZLOVSKIY, I. S., kandidat tekhnicheskikh nauk; MATVEYEVA, Ye. N., tekhnicheskiy redaktor.

[An investigation of Soviet automobile radiators] Issledovanie otechestvennykh avtomobil'nykh radiatorov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel. lit-ry, 1954. 43 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotorny institut. [Trudy], no. 74) (MLRA 8:9)  
(Automobiles--Radiators)

ZIL'BERBERG, YA. G.

LAPIDUS, V.I., kandidat tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; ZIL'BERBERG, Ya.G., inzhener, sekretar'; BRILING, N.R., doktor tekhnicheskikh nauk, professor; PEVZNER, Ya.M., doktor tekhnicheskikh nauk, professor; KHRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor; KALISH, G.G., doktor tekhnicheskikh nauk, professor; RAMAYTA, I.S., doktor tekhnicheskikh nauk; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk; UVAROVA, A.F., tekhnicheskiiy redaktor.

Experimental research on fluid flow in hydraulic torque converters.  
[Trudy] NAMI no.73:1-22 '54. (MIRA 8:2)

1. Direktor Nauchnogo avtomotornogo instituta (for Osipyan).  
(Oil hydraulic machinery)(Automobiles--Transmission devices)

С.Л. БЛРД. 25, Ян. 6.

KULIKOV, N.K., kandidat tekhnicheskikh nauk; OSIPIYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; ERILING, N.R., doktor tekhnicheskikh nauk, professor, redaktor; KALISH, G.G., doktor tekhnicheskikh nauk, professor, redaktor; PEVNER, Ya.M., doktor tekhnicheskikh nauk, professor, redaktor; KHRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redaktor; LIPGART, A.A., redaktor; PRIYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVONOV, S.B., inzhener, redaktor; ZIL'BERBERG, Ya.G., inzhener, redaktor; UVAHOVA, A.F., tekhnicheskiiy redaktor.

Weged freewheeling clutches. Trudy NAMI no.75:3-67 '54.  
(MIRA 8:7)

1. Konstruktor Nauchno-issledovatel'skogo avtomotornogo instituta (for Lipgart)  
(Clutches (Machinery))

ZIL BERBERG, Ya. G.

LEVENSTERN, O.L., kandidat tekhnicheskikh nauk; KRESTOVNIKOV, G.A., inzhener;  
OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S.,  
kandidat tekhnicheskikh nauk, redaktor; ZIL BERBERG, Ya.G., inzhener,  
redaktor; BRILING, N.R., professor, dektor tekhnicheskikh nauk, redaktor;  
KALISH, G.G., dektor tekhnicheskikh nauk, professor, redaktor; RAMAYYA,  
K.S., dektor tekhnicheskikh nauk, redaktor; LIPGART, A.A., professor,  
redaktor; PRIADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor;  
ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOVONOV,  
S.B., inzhener, redaktor; SHTEYNGART, M.D., redaktor; UVAROVA, A.F.,  
tekhnicheskij redaktor.

[Heating of brake linings in passenger cars] Nagrev termoznykh nakladek  
legkovykh avtemobilei. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.  
lit-ry, 1955. 35 p. (Moscow, Gosudarstvennyi nauchno-issledovatel'skii  
avtemobil'nyi i avtomotornyj institut. Trudy, no. 78). (MLRA 9:7)

1. Direktor Nauchno-issledovatel'skogo avtomotornogo instituta (fer  
Osipyan). 2. Zamestitel' direktora Nauchno-issledovatel'skego avtomoter-  
nogo instituta (fer Kozlevskiy). 3. Chlen-korrespondent AN SSSR (fer Briling).  
(Automobiles--Brakes)

KULIKOV, N.K., doktor tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; ZIL'BERBERG, Ya.G., inzhener, redaktor; BRILING, N.R., doktor tekhnicheskikh nauk, professor, redaktor; KALISH, G.G., doktor tekhnicheskikh nauk, professor, redaktor; PEVZNER, Ya.M., doktor tekhnicheskikh nauk, professor, redaktor; KRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor, redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, professor, redaktor; LIPGART, A.A., professor, redaktor; PRIYADILLOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVONOV, S.B., inzhener, redaktor; YEGORKINA, L.I., redaktor; UVAROVA, A.F., tekhnicheskij redaktor; BROKSH, V.V., inzhener.

[Performance of automobile wheels] Rabota avtomobil'nogo koleasa. (Moscow: Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut. [Trudy] no.77) 1955 36 p.  
(MLRA 9:4)

1.Chlen-korrespondent AN SSSR (for Briling).  
(Automobiles--Wheels)

ZIL'BERBERG, YA.G.

RAMAYYA, K.S., doktor tekhnicheskikh nauk; SIL'S, R.Kh., inzhener;  
BEN-YAKIR, R.D., inzhener; KOZLOVSKIY, I.S., kandidat tekhnicheskikh  
nauk, zamestitel' otvetsyennogo redaktora: ZIL'BERBERG, Ya.G.,  
inzhener, sekretar'; BRILING, N.R., professor, doktor tekhnicheskikh  
nauk; KALISH, G.G., professor, doktor tekhnicheskikh nauk; PHVZNER,  
Ya.M., professor, doktor tekhnicheskikh nauk; KHRUSHCHEV, M.M.,  
professor, doktor tekhnicheskikh nauk; LIFGART, A.A.; professor;  
PRYADILLOV, V.I., kandidat tekhnicheskikh nauk; ROZANOV, V.S., kandi-  
dat tekhnicheskikh nauk; CHISTOZVONOV, S.B., inzhener; BROKSH, V.V.,  
zaveduyushchiy redaksiyey, inzhener; UVAROVA, A.F., tekhnicheskii  
redaktor; OSIPIYAN, A.F., kandidat tekhnicheskikh nauk, otvetstvennyy  
redaktor.

[Method of determining the potential corrosion properties of lubri-  
cants] Metod opredeleniya potentsial'noi korrozionnosti masel. Mo-  
skva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry.1956 49 p.  
(Moscow, Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi  
i avtomotornyi institut. [Trudy], no. 80) (MLRA 10:1)

1. Direktor Nauchno-issledovatel'skogo avtomotornogo instituta (for  
Osipyan). 2. Zamestitel' direktora Nauchno-issledovatel'skogo  
avtomotornogo instituta po nauchnoy rabote (for Kozlovskiy). 3. Chlen-  
korrespondent Akademii nauk SSSR (for Briling).  
(Lubrication and lubricants) (Corrosion and anticorrosives)

KISELEV, B.A., inzh.; EIPGART, A.A., otv.red.; PASHIN, M.A., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.; BRYZGOV, N.N., red.; DYBOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red.; LUNEV, I.S., red.; NAGAYEV, P.V., red.; PEVZNER, Ya.M., red.; PRYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.; SEDOVA, Ye.V., red.; TAMRUCHI, O.V., red.; CHAPKEVICH, V.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV, E.M., red.; SMIRNOVA, G.V., tekhn.red.

[Investigation of the operation and gas-exchange of a loop-scavenged two-cycle motor-vehicle diesel engine] Issledovanie rabochego protsessa i gazoobmena dyukhtaktnogo avtomobilnogo dizela s petlevoi poduvkoi. Moskva, Mashgiz, 1961, 193 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotorny i institut. Trudy, no.34). (MIRA 16:8)  
(Motor vehicles--Engines)



PETRUSHOV, V.A., inzh.; PASHIN, M.A., red.; LIPGART, A.A., otv.red.;  
AL'PEROVICH, A.G., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.;  
DYBOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red.;  
LUNEV, I.S., red.; NAGAYEV, P.V., red.; PEVZNER, Ya.M., red.;  
PRIYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.;  
SEDOVA, Ye.V., red.; TAMBUCHI, O.V., red.; KHANIN, N.S., red.;  
CHAPCHAYEV, A.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV,  
E.M., red.; YEGORKINA, L.I., red.izd-va; GORDEYEVA, L.P., tekhn.  
red.

[Operational analysis of the multiplate friction transformer]  
Analiz raboty mnogodiskovykh friktsionnykh transformatorov.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry,  
1960. 79 p.(Moscow. Gosudarstvennyi nauchno-issledovatel'skii  
avtomobil'nyi i avtomotorny i institut [Trudy], no.90).

(MIRA 13:8)

(Motor vehicles--Transmission devices)

LYSYKH, T.S., kand.telchn.nauk; PASHIN, M.A., red.; LIPGART, A.A., red.; AL'-  
 PEROVICH, A.G., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.;  
 DYBOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red.;  
 LUTEV, I.S., red.; MUKAYEV, P.V., red.; PEVNER, N.M., red.;  
 PRYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.;  
 SEDOVA, Ye.V., red.; TAMURCHI, O.V., red.; KHANIN, N.S., red.;  
 CHAPCHAYEV, A.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV, E.M.,  
 red.; LEZHNEVA, G.V., red.izd-va; SMIRNOVA, G.V., tekhn.red.

[Design and investigation of performance of power disk brakes]  
 Issledovanie raboty diskovykh tormozov s usileniem i metod ikh  
 rascheta. Moskva, Gos.nauchno-issledovatel'skii avtomobil'noi i  
 avtomotorny institut. Trudy, no.86) (MIRA 12:8)  
 1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni  
 nauchno-issledovatel'skiy avtomobil'nyy i avtomotorny institut.  
 (Automobiles--Brakes)

RUDNITSKIY, N.M., kand. tekhn. nauk; VEDENYAPIN, G.A., otv.red.; KOZLOVSKIY, I.S.,  
kand.tekhn.nauk, red.; ZIL'BERBERG, Ya.G., inzh. zamstatitel' otv.red.  
BRILING, N.R., doktor tekhn.nauk, prof., red.; KALISH, G.G., doktor  
tekhn.nauk, prof., red.; PEVZNER, YA.M., doktor tekhn.nauk, prof.,  
red.; KHRUSHCHEV, M.M.; doktor tekhn.nauk, prof., red. RAMAYVA, K.S.,  
doktor tekhn.nauk, red.; LIPGART, A.A., prof., red.; PRIYADILOV, V.I.,  
kand. tekhn. nauk, red.; ROZANOV, V.G., kand. tekhn nauk, red.;  
CHISTOZVONOV, S.B., inzh., red.; AVAKIMOV, G.G., red.izd-va;  
SHIKIN, S.T., tekhn. red.

[Investigating the durability of crankshafts in IAAZ diesel engines]  
Issledovanie vyнослиvosti kolenchatykh valov dizel'noi IAAZ Moskva,  
Gos. nauchn.-tekhn. izd-vo mashinostroitel'noi lit-ry, 1957. 30 p.  
(Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i  
avtomotornyi institut [Trudy], no.8a]. (MIRA 11:4)

1. Direktor Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo  
Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo  
instituta (for Vedenyapin). 2. Zamestitel' direktora po nauchnoy  
chasti Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo Znameni  
nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta  
(for Kozlovskiy). 3. Chlen-korrespondent AN SSSR (for Briling).  
(Crankshafts and crankshafts) (Diesel engine)

TRAKTOVENKO, I.A., kand. tekhn. nauk; VEDENYAPIN, G.A., otv. red.; KOZLOVSKIY, I.S., kand. tekhn. nauk. red.; ZIL'BERBERG, Ya.G., inzh. zastestitel' otv. red.; BRILING, N.R., doktor tekhn. nauk, prof., red.; KALISH, G.G., doktor tekhn. nauk, prof., red.; PEVZNER, Ya.M., doktor tekhn. nauk, prof., red.; KHRUSHCHEV, M.M., doktor tekhn. nauk, prof., red.; RAMAYYA, K.S., doktor tekhn. nauk, red.; LIPCART, A.A., prof., red.; FRYADILOV, V.I., kand. tekhn. nauk, red.; ROZANOV, V.G., kand. tekhn. nauk, red.; CHISTOVONOV, S.B., inzh., red.; SHIKIN, S.T., tekhn. red.

[Investigating the effect of the octane number of diesel fuels on the performance of engines] Issledovanie vliianiia tsetanovogo chisla topliva na rabotu dvigatel'ia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1957. 30 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotorny institut. [Trudy], no.83). (MIRA 10:12)

1. Direktor Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta (for Vedenyapin). 2. Zamestitel' direktora po nauchnoy rabote Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta (for Kozlovskiy). 3. Chlen-korrespondent AN SSSR (for Briling). (Diesel fuel) (Diesel engine)

ZIL BERBERG, Ya.G.

RUDNITSKIY, N.M., kandidat tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; ZIL'BERBERG, Ya.G., inzhener, redaktor; BRILING, N.R., doktor tekhnicheskikh nauk, professor, redaktor; KALISH, G.G., doktor tekhnicheskikh nauk, professor, redaktor; PEVZNER, Ya.M., doktor tekhnicheskikh nauk, professor, redaktor; KRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor, redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redaktor; LIPGART, A.A., professor, redaktor; PRIYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; BOZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVONOV, S.B., inzhener; BROKSH, V.V., inzhener, redaktor; BAUMAN, I.M., redaktor; UVAROVA, A.F., tekhnicheskiiy redaktor.

[Endurance of materials for automobile engine sliding friction bearings]  
Vynoslivost' materialov dlia podshipnikov skol'shenia avtomobil'nykh dvigatelei. (Moscow, Gosudarstvennyi nauchno-issledovatel'skii i avtomobil'nyi institut. [Trudy], no.76) 1955 54 p. (MIRA 9:4)

1. Direktor Nauchno-issledovatel'skogo avtomotornogo instituta (for Osipyan). 2. Chlen-korrespondent AN SSSR (for Briling).  
(Bearings (Machinery)) (Automobiles--Engines)

ZIL'BERBERG, Ya, G.

CHAPKEVICH, V.A., kandidat tekhnicheskikh nauk; OSIPIYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; ZIL'BERBERG, Ya, G., inzhener, redaktor; BRILING, N.R., professor, doktor tekhnicheskikh nauk, redaktor; KALISH, G.G., professor, doktor tekhnicheskikh nauk, redaktor; PEVZNER, Ya, M., professor, doktor tekhnicheskikh nauk, redaktor; KHRUSHCHOV, M.M., doktor tekhnicheskikh nauk, professor, redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redaktor; LIPGART, A.A., professor, redaktor; PRIYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVONOV, S.B., inzhener, redaktor; UVAROVA, A.F., tekhnicheskii redaktor.

[Investigation of the operation of the IAAZ engine] Issledovanie rabochego protsessa dvigatelya IAAZ. Moskva, Gos. nauchno-tekhn. izd-vo mashino-stroitel'stva, 1956. 41 p. (Moscow, Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotorny institut. [Trudy], no. 79)

(MIRA 10:3)

1. Direktor Nauchno-issledovatel'skogo avtomobil'nogo instituta (for Osipyan).
2. Zamestitel direktora Nauchno-issledovatel'skogo avtomobil'nogo instituta po nauchnoy rabote (for Kozlovskiy).
3. Chlen-korrespondent AN SSSR (for Briling).  
(Automobiles--Engines)

ZIL' BERBERG, Ya. G.

SHKOL'NIKOV, E.M., kand.tekhn.nauk; LEVITAN, M.M., inzh.; OSIPYAN, A.V.,  
kand.tekhn.nauk, red.; KOZLOVSKIY, I.S., kand.tekhn.nauk, zamestitel'  
otvetstvennogo red.; BRILING, N.R., doktor tekhn.nauk, prof., red.;  
KALISH, G.G., doktor tekhn.nauk, prof.; LIPGART, A.A., prof., red.;  
PEVZNER, Ya.M., doktor tekhn.nauk, prof., red.; PRYADILLOV, V.I., kand.  
tekhn.nauk, red.; ROZANOV, V.G., kand.tekhn.nauk, red.; KRUSHCHEV, M.M.,  
doktor tekhn.nauk, prof., red.; CHISTOZVONOV, S.B., inzh., red.;  
ZIL'BERBERG, Ya.G., inzh., red.; YEGORKINA, L.I., red.isd-va;  
UVAROVA, A.F., tekhn.red.

[Using chromium-silicon alloys in manufacturing automobile engine  
sleeves] Khromokremnistyi splav dlia gil'z avtomobil'nykh dvigatelei.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 78 p.  
(Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i  
avtomotornyi institut. Trudy no.81)

1. Direktor Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo  
Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo  
instituta (for Osipyan). 2. Zamestitel' direktora Gosudarstvennogo  
soyuznogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo  
avtomobil'nogo i avtomotornogo instituta (for Kozlovskiy). 3. Chlen-  
korrespondent AN SSSR (for Briling).  
(Chromium-silicon alloys) (Automobiles--Engines--Cylinders)

IRZHEVSKIY, V.P. [Irzhevs'kiy, V.P.]; KOMEYKO, A.I.; GELLER, S.L. [Heller, S.L.];  
ZIL'BERBERG, Ya.M.

Protection of ammonia compressors against water hammer. Kharch.prom.  
no.4:59-63 O-D 63.  
(MIRA 17:1)



L 10475-67 EWT(m) DJ  
 ACC NR: AP6025083 (A) SOURCE CODE: UR/0122/66/000/007/0027/0031  
 AUTHOR: Zil'berg, Yu. Ya. (Candidate of technical sciences) 36  
 ORG: none  
 TITLE: A test of the use of aluminum alloys in bearings of tractor diesels  
 SOURCE: Vestnik mashinostroyeniya, no. 7, 1966, 27-31  
 TOPIC TAGS: aluminum alloy, aluminum containing alloy, antifriction bearing, bearing material, roller bearing, diesel engine  
 ABSTRACT: The transition in the Soviet tractor industry from gasoline engines to diesel engines has prompted the need for research into possible metals and alloys to be used in bearings. Likely substitutes for bronze bearings have been aluminum-based alloys, whose properties can vary in a relatively wide range because of the introduction of proportionately small quantities of other elements. Many advantages of aluminum-based alloys for this use are cited, including high fatigue strength, good corrosion resistance, favorable thermal properties, high resistance to wear, etc. A brief history of the development of the use of aluminum in heavy-duty bearings is given. The work of M. M. Khrushchov is cited as being very prominent in the field. A comprehensive summary of the application of antifrictional alloys in crankshaft bearings for diesel tractor engines is given as well as a large tabulation showing the cross reference among: 1) the antifriction material used; 2) the method of preparing  
 Card 1/2 UDC: 621.822.5:669.715

L 10475-67

ACC NR: AP6025083

the blank and the method of preparing the insert; 3) examples of the insert formation; 4) the design maximum tolerable load (fatigue strength) in  $\text{kg}/\text{cm}^2$ ; 5) a verbal, qualitative description of properties; 6) disadvantages; and 7) examples of application and representative insert thickness.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 011

Card

2/2

YETS, A.G.; DUDKEVICH, G.A.; ZIL'BERBORD, B.Sh.; BORSHCHEVSKAYA, V.A

Potential local anesthesia in thyrotoxic goiter surgery. Sov. med.  
28 no.4:45-48 Ap '64. (MIRA 17:12)

1. Klinika obshchey khirurgii (zav. - dotsent G.A. Dudkevich)  
Yaroslavskogo meditsinskogo instituta.

ZIL'BERBRANDT

AUTHORS: Zil'berbrandt, O.I., Kazakov, Ye. I., Kasatochkin, V.I. <sup>24-2-25/28</sup>  
and Tyazhelova, A.A. (Moscow).

TITLE: Investigation of the composition and of the properties  
of bitumen from shale tars of the Volga area.  
(Issledovaniye sostava i svoystv bituma iz degtey  
privolzhskikh slantsev).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh  
Nauk, 1958, No.2, pp. 155-158 (USSR).

ABSTRACT: The results are described of investigation of bitumen  
obtained by oxidation of heavy fractions of semi-coking  
tars of Kashiria shale under works conditions. The  
residual tar fraction, boiling at 320°C, was subjected to  
oxidation in air at 170 to 180°C. Depending on the  
duration of the oxidation, various bitumen grades were  
obtained, the characteristics of which are entered in  
Table 1, p.156. It is concluded that with increasing  
duration of the oxidation of the original raw materials  
an accumulation takes place of hydrogenated and of the  
condensed asphaltene structures; the quantity is reduced  
of oils which, in the given case, become more saturated,  
compensating approximately the constancy of the relative  
Card 1/2 contents of carbon and of hydrogen.

24-2-25/28

Investigation of the composition and of the properties of bitumen  
from shale tars of the Volga area.

There are 3 figures, 2 tables and 15 references -  
9 Russian, 6 English.

SUBMITTED: November 9, 1956.

AVAILABLE: Library of Congress.

Card 2/2

ZIL'BERBURG, I.S., inzhener.

Remarks on S.G. Zislin's and S.N. Inozentsev's article "Standards  
the system of drafting organization do not meet the requirements  
of the automobile industry." Standartizatsiia no.5:66-68 S-0'54.  
(Automobile engineering—Standards) (MLRA 8:2)

ZIL'BERBLAT, E. I.

24360 ZIL'BERBLAT, E. I. Nablyudeniya nad primeneniye sardachnogo glyukozida-folinerina. Vracheb. Delo, 1949, No. 8, STB. 731-36.

SO: Letopis, No. 32, 1949.

ZIL'BERBLAT, E.O., inzhener; ZOLOTAREVSKIY, M.M., inzhener.

Mechanizing the handling of material in shops of the Kharkov  
hosiery plant. Leg.prom.16 no.12:14-17 D '56. (MLRA 10:2)  
(Hosiery industry) (Conveying machinery)



ZIL'BERBLAT, E.O., inzhener.

Conveyor system in the manufacture of hosiery. Leg.prom.16 no.2:  
11-14 F '56.

(MIRA 9:7)

(Hosiery industry) (Assembly-line methods)

ZIL'BERBLAT, G.S.; GOLOVANOV, N.N.

Regulation and control of measured small-volume aeration of  
Protozoa cultures by means of automatic electronic devices.  
Lab. delo no.10:633-638 '64. (MIRA 17:12)

1. Laboratoriya protivorakhovykh preparatov (zaveduyushchiy -  
chlen-korrespondent AMN SSSR prof. N.G. Klyuyeva) Gosudarstvennogo  
ob'yedineniya "Tekhproyekt".

PARIZH, B.M.; ZIL'BERBLAT, G.S.

Concentration of Trypanosoma by the method of centrifugation in  
separators. Lab. delo 8 no.3:38-41 Mr '62. (MIRA 15:5)

1. Laboratoriya protivorakovykh preparatov (zav. - chlen-korrespondent  
AMN SSSR prof. N.G.Klyuyeva) Gosudarstvennogo kontrol'nogo instituta  
meditsinskikh biologicheskikh preparatov imeni L.A.Tarasevicha.  
(PROTOZOA, PATHOGENIC) (CENTRIFUGATION)

ZIL'BERBLAT, G.S. (Moskva); KASHIK, S.A. (Irkutsk); DEMBERELIYN DASHZEVEG;  
BOGDANOV, O.P.; BOGACHEV, V.V., prof. (Baku); ROZENGURT, M.Sh. (Odessa);  
LYUBIMOV, O. (Ostrov Vize); GIA DILIN, K.L.

News, events, facts. Priroda 51 no.8:113-122 Ag '62.

(MIRA 15:9)

1. Mongol'skiy gosudarstvennyy universitet, Ulan-Bator (for Dembereliyn Dashzeveg).
2. Institut zoologii i parazitologii AN UzSSR, Tashkent (for Bogdanov).
3. Institut biokhimii im. A.N. Bakha AN SSSR (for Gladilin).

Science news

BRUK, Aleksandr Davidovich. Prinimal uchastiye ZIL'BERBLAT, M.E.,  
inzh.; NEVEL'SON, M.I., kand. tekhn. nauk, red.

[Draft and blast machines in metallurgy] Tiagodut'evye  
ustanovki v metallurgii. Moskva, Metallurgiya, 1965. 179 p.  
(MIRA 18:3)

ZIL'BERBLAT, M.E.; OREL, O.A.

Efficiency of the improved control system for the main drive of a  
roughing mill. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i  
tekh.inform. 17 no.7:5-8 J1 '64.  
(MIRA 17:10)

ZIL'BERBLAT, YA. B

On 4 October 1946, at the Power Engineering Institute imeni Molotov, defended his dissertation on "Wide-Dispersion Mirror Illumination for Lighting Streets and Squares." Official opponents - Doctor of Technical Sciences Professor V. V. Mashkov, and Candidate of Technical Sciences G. I. Dluzhnevskiy.

So: Elektrichestvo, No 4, April 1947, pp 90-94 ( U-5577, 18 February 1954 )

An analytical method was presented for calculating the shapes of symmetric, nonsymmetric, and compound reflectors. Methods were given for calculating the diffusion of light strength of mirror illuminators and of the illumination created by nonsymmetrical illuminating instruments. Designs were submitted of equipment for investigating the characteristics of mirror illuminators, the diffusing properties of protective glass, the level of brilliancy, and the distribution of temperature in illuminating devices of various types. The results were given of a check of the operation of illuminating devices on the streets of Moscow, and a comparative economic evaluation was given of equipment with mirror illumination and that supplying direct and diffused light.

So: IBID

ZILBERBLAT, YU. B.

PA 15/49T38

USSR/Electricity  
Lighting, Outdoor  
Street Lighting

Aug 48

"Condition and Perspective of the Development of  
Municipal Outdoor Lighting," Ye. B. Zil'berblat, Cand.  
Tech Sci, Acad Public Economy imeni Pamfilov, 6 pp

"Elektrichestvo" No 8

Proposes measures for improvement of street lighting.  
Increasing urban transport and tremendous number of  
pedestrians reveal need.

15/49T38



ZIL'BERBLAT, YA. B.

35292. Prizmaticheskiy svetic'nik dlya osveshcheniya ulits. Nauch.  
Trudy (Akad. Kommunal Khoz-za Im. pamfilova). Vup 4-5, 1949  
S. 68-73

SO: Letopis' Zhurnal'nykh Statey, Vol. 34, 1949 Moskva

ZIL'DERBLAT, YA.B.

PA 190T50

USSR/Engineering - Luminescence, Mar 51  
Application

"Using Luminescent Lamps at Low Temperatures," Ya.  
B. Zil'derblat, Acad of Communal Econ Inven K. D.  
Pamfilov

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 3, pp 350-359

Expts with photoluminescent mercury lamps showed  
that, being thermally insulated, they may be effec-  
tively used under low-temp conditions. Max emission  
of 30-w lamps with heat-insulation jackets is  
reached at -120. Dependable lighting with low temp

190T50

USSR/Engineering - Luminescence, (Contd) Mar 51  
Application

of surrounding medium is provided by using special  
thermal starter, which automatically increases  
preliminary heating period of lamp electrodes with  
temp drop. There is no significant effect of heat  
insulation on emission of electrodes, and life of  
lamp exceeds 2,000 hr. Submitted by Acad V. S.  
Kulebakin.

190T50

ZIL'BERLAT, Ya. B.; OSTROVSKIY, M. A.; FEDOTKIN, S. N.; AKATOVA, V. G., re-  
daktor; GUROVA, O. A., tekhnicheskiiy redaktor.

[Layout for effective city lighting] Ratsional'nye skhemy osveshcheniia  
gorodov. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR,  
1954. 50 p.  
(Street lighting)

(MLR 8:1)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065120011-3

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065120011-3"

ZIL'BERBLAT, Ya.B., kandidat tekhnicheskikh nauk.

Operating conditions for 80-watt fluorescent lamps in outdoor applications. Svetotekhnika 2 no.5:11-14 S '56.

(MLRA 9:11)

1. Akademiya kommunal'nogo khozyaystva SSSR.  
(Fluorescent lamps)

ZIL'BERLAT Ya.B., kandidat tekhnicheskikh nauk; KORYAZIN, V.G., kandidat tekhnicheskikh nauk.

Experience using fluorescent lamps for municipal street lighting.  
Svetotekhnika 3 no.9:1-6 S '57.  
(MLRA 10:9)

1. Akademiya kommunal'nogo khozyaystva.  
(Street lighting)

ZIL'BERBLAT, Ya.B., kand.tekhn. nauk; KORYAGIN, V.G., kand. tekhn.nauk

Lighting first and second class streets by hanging fluorescent  
illuminators. Svetotekhnika 4 no.10:8-12 0 '58. (MIRA 11:10)

1.Akademiya kommunal'nogo khozyaystva.  
(Street lighting) (Fluorescent lamps)

ZIL'BERBIAT, Ya.B., kand. tekhn.nauk; KORYAGIN, V.G., kand. tekhn.nauk.

Fluorescent-lighting systems of streetcars. Svetotekhnika no.1:13-17  
Ja '59. (MIRA 12:1)

1.Akademiya kommunal'nogo khozyaystva.  
(Streetcars) (Fluorescent lighting)



ZIL'BERBLAT, Ya.B.; KORYAGIN, V.G.; KORYAGIN, O.G.

Fluorescent lighting of double-unit trolley buses. Gor.khoz.  
Mosk. 34 no.7:36-38 JI '60. (MIRA 13:7)

1. Akademiya kommunal'nogo khozyaystva.  
(Trolley buses) (Fluorescent lighting)

ZIL'BERBLAT, Ya.B., kand.tekhn.nauk; OSTROVSKIY, M.A., kand.tekhn.nauk

Norms on street lighting. Svetotekhnika 8 no.10:4-8 0 '62. (MIRA 15:9)

1. Akademiya kommunal'nogo khozyaystva i Vsesoyuznyy svetotekhnicheskiy institut.  
(Street lighting--Standards)

ZIL'BERBLAT, Ya.B., kand.tekhn.nauk; OSTROVSKIY, M.A., kand.tekhn.nauk

Proposed norms and regulations for the lighting of streets, roads,  
trains, and platforms. Svetotekhnika 8 no.10:9-11 0 '62.

(Street lighting--Standards) (Electric lighting--Standards)  
(MIRA 15:9)

ZIL'BERBIAT, Ya.B., kand.tekhn.nauk

Method for calculating the average brightness of road coatings.  
Svetotekhnika 8 no.10:11-15 0 '62.  
(MIRA 15:9)

1. Akademiya kommunal'nogo khozyaystva.  
(Highway research)

ZIL'BERBORD, A. F., CAND TECH SCI, "THERMAL REGIME AND STABILITY OF SUBTERRANEAN <sup>workings</sup> ~~MINES~~ IN THE FIELD OF <sup>distribution of</sup> ~~EXPANDING PERME-  
FROZEN ROCK~~ <sup>permafrost</sup>". MOSCOW, 1960. (MIN OF HIGHER AND SEC  
SPEC ED RSFSR. MOSCOW MINING INST IM I. V. STALIN). (KL,  
2-61, 208).

-131-

ZIL' HERBORD, A.F.

Possibility of using ice for packing excavated spaces in  
coal deposits embedded in permanently frozen rocks. Izv. Sib. otd.  
AN SSSR no.10:47-53 '58. (MIRA 11:12)

1. Severe-Vostochnoye otdeleniye Instituta merlotovedeniya AN SSSR.  
(Arctic regions--Mine filling)  
(Ice)

KOZHEVNIKOV, N.A., inzh.; VOYTKOVSKIY, K.F., kand. tekhn. nauk; ZIL'BERBORD,  
A.F., gornyy inzh.; SHUMOV, A.I., gornyy inzh.

"Principles of mining engineering in conditions of permafrost"  
by V.P. Bakakin. Reviewed by N.A. Kozhevnikov and others. Gorn.  
zhur. no. 2:78-79 F '59. (MIRA 12:2)

1. Severo-Vostochnoye otdeleniye Instituta merzlotovedeniya  
AN SSSR, Yakutsk.

(Mining engineering) (Frozen ground)  
(Bakakin, V.P.)

ZIL'BERBORD, A.F.; MAYZEL', L.A.

Efficient mining of the Kagalassy lignite deposit in the Yakut  
A.S.S.R. Trudy Sev.-Vost.otd.Inst.merz1.AN SSSR no.1:71-87 '58.  
(MIRA 16:12)



DYAD'KIN, Yu.D., kand. tekhn. nauk, otv. red.; ZIL'BERBORD, A.F.,  
kand. tekhn. nauk, otv. red.

[Thermal and mechanical processes in mining minerals; mining operations in a massif of frozen ground] Teplovye i mekhanicheskie protsessy pri razrabotke poleznykh iskopaemykh; gornye raboty v massive merzlykh porod. Moskva, Nauka, 1965. 266 p. (MIRA 18:5)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut merzlotovedeniya. 2. Institut merzlotovedeniya Sibirskogo otdeleniya AN SSSR (for Zil'berbord). 3. Leningradskiy gornyy institut (for Dyad'kin).

ZIL'BERBORD, A.F.; GRAVIS, G.F.

Intensity of deformations in mine workings depending upon  
conditions of accumulation and freezing of quaternary deposits.  
Fiz.-tekh. probl. razrab. pol. iskop. no.1:20-24. '65.

(MIRA 18:10)

1. Institut gornogo dela im. A.A. Skochinskogo, Moskva.

ZIL'BERBORD, Anatoliy Feliksovich; VOYTKOVSKIY, K.P., doktor tekhn.  
nauk, otv. red.; BRODSKAYA, A.G., red.; SIMKINA, G.S.,  
tekhn. red.

[Heat regime in mines in areas of permanently frozen ground]  
Teplovoi rezhim shakht v oblasti rasprostraneniia mnogoletne-  
merzalykh gornyykh porod. Moskva, Izd-vo Akad.nauk SSSR, 1963.  
93 p.

(Frozen ground)

(MIRA 16:4)

(Mine ventilation--Cold weather conditions)

ZIL'BERBORD, M.B.

ZIL'BERBORD, M.B., inzhener.

Selecting economic walls made of precast factory-produced elements.  
Nov.tekh. i pered. op. v stroi. 18 no.7:23-24 J1 '56.(MIRA 9:9)  
(Precast concrete) (Walls)

USSR/Chemistry - Physical chemistry

Card 1/1 Pub. 43 - 50/62

Authors : Kasatochkin, V. I.; Shostakovskiy, M. F.; Zil'berband, O. I.; and Kochkin, D. A.

Title : About hydrogen bonds in silanols

Periodical : Izv. AN SSSR. Ser. fiz. 18/6, 726-728, Nov-Dec 1954.

Abstract : The infrared absorption spectra of trimethylcarbinol and five different silanols:  $(CH_3)_3SiOH$ ,  $(CH_3)_2C_2H_5SiOH$ ,  $CH_3(C_2H_5)_2SiOH$ ,  $(C_2H_5)_3SiOH$  and  $C_6H_5SiOH$  were investigated in a range of wave lengths of from 2 - 4  $\mu$ . The nature of molecular association of silanols and the effect of the nature of the hydroxy group. It was established, among others, that the silanols are amphoteric, particularly their amphoteric properties are manifested in the formation of the hydrogen bond and strong reaction with the hydroxyl groups of the neighboring molecules which takes place in the case of the hydrogen-bonded silanols. Graphs.

Institution : Acad. of Sc., USSR, Institute of Combustible Minerals

Submitted : .....

KASATOCHKIN, V.I.; SHOSTAKOVSKIY, M.F.; ZIL'BERBERAND, O.I.; KOCHKIN, D.A.

Hydrogen linkage in silanols. *Zhur.fiz.khim.* 29 no.4:730-733 Ap '55.  
(MIRA 8:8)

1. Akademiya nauk SSSR, Institut organicheskoy khimii.  
(Silanol)

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ZIL'BERBRAND, O. I., Cand Chem Sci (disq) -- "Spectral investigation of solid mineral fuels". Moscow, 1960. 15 pp (Acad Sci USSR, Inst of Mineral Fuels), 150 copies (KL, No 11, 1960, 129)



ZIL'BERBRAND, O. I.

PRIKHOT'KO, A. F.

24(7)

13

PHASE I BOOK EXPLOITATION

404/1365

L'vov. University

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii. t. 1: Molekulyarnaya spektroskopiya (Papers of the 10th All-Union Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy) [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies printed. (Series: Itsi: Fizichnyy zbirnyk, vrp. 3/8/)

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Kasatochkin, V.I., O.I. Zil'berbrand, and A.A. Shubin. Infrared Absorption Spectra of Organic Mineral Substances

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Card 17/30

ZIL'BERBRAND, O.I.; KASATOCHKIN, V.I.

Use of infrared spectroscopy in studying the chemical structure  
of kerogen in shale. Fiz. sbor. no.3:257-261 '57. (MIRA 11:8)

1. Institut goryuchikh iskopayemykh AN SSSR,  
(Kerogen--Spectra) (Chemical structure)

20-119-4-44/60

AUTHORS: Kasatochkin, V. I., Kononova, M. M., Zil'berbrand, O. I.

TITLE: Infra-Red Absorption Spectra of Humus Substances of the Soil (Infrakrasnyye spektry pogloshcheniya gumusovykh veshchestv pochvy)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 4, pp. 785 - 788 (USSR)

ABSTRACT: The humus substances are the most characteristic compounds of the organic part of the soil. They were often investigated. Since, however, many problems connected with them are complicated and the nature of the substances varies according to the conditions of the soil formation, a number of problems concerning their nature and structure is not explained. In the present paper results are given of a comparative investigation of the structure of the humic and "fulvic" acids, as in the title, and by means of radiographic method. As samples served: common black soil and lawn bleaching earth, both different to a great extent from each other. The method of

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20-119-4-44/60

. Infra -Red Absorption Spectra of Humus Substances of the Soil

isolation of the humus substances was already described (Reference 1). Table 1 gives the elementary composition of the humus substances. These data show a higher degree of carbon enrichment in humic acids from black soil compared to those from the lawn "bleaching" earth and especially with the fulvic acids. Figure 1 shows schematically the interference bands on radiographs as rectangles the altitude of which corresponds to the relative intensity, and their width to the half width of the bands. The carbon skeleton of the molecules of the humic and "fulvic" acids is characterized by the existence of an aromatic carbon atomic net (nuclear part) and of lateral groups (periphoric part) of non-aromatic nature, the latter contain carbon, sulfur, nitrogen, and other elements. In the molecules of humic acids the nuclear part is, in comparison with "fulvic" acids, better marked. This corresponds to a higher carbon percentage which is organized into carbon lattices. In humic acid from lawn bleaching earth the net is marked to a smaller extent than in the case of black soil. The existence of the periphoric

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20-119-4-44/60

Infra-Red Absorption Spectra of Humus Substances of the Soil

part which is marked to a smaller extent is characteristic of "fulvic" acid molecules. The obtained results prove uniform structure principles of humic- and "fulvic" acids from common black soil as well as from the lawn bleaching earth. However, besides the relation between the nuclear- and the peripheric part of the molecular structure, also the structure of the lateral groups in humic- and "fulvic" acids varies. There are 2 figures, 1 table and 3 Soviet references.

ASSOCIATION: Pochvennyy institut im. V. V. Dokuchayeva Akademii nauk SSSR  
(Soil Institute imeni V. V. Dokuchayev AS USSR)

PRESENTED: October 4, 1957, by I. V. Tyurin, Member, Academy of Sciences, USSR

SUBMITTED: September 28, 1957

Card 3/3

KASATOCHKINA, V.I.; KONONOVA, M.M.; ZIL'BERBRAND, O.I.

Infrared absorption spectra of humus in the soil. Dokl. AN SSSR  
119 no.4:785-788 Ap '58. (MIRA 11:16)

1. Pochvennyy institut im. V.V. Dokuchayeva AN SSSR, Predstavleno  
akademikom I.W. Tyurinym.

(Humus---Spectra)

ZIL'BERBRAND, O.I.

USSR / Physical Chemistry. Crystals.

B-5

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 25998

Author : V.I. Kasatochkin, O.I. Zil'berbrand.

Title : Roentgenography and Infrared Spectroscopy in Application to Study of Structure of Humus Substances.

Orig Pub : Pochvovedeniye, 1956, No 5, 80 - 85

Abstract : The curves of absorption in the infrared spectrum range in wave length intervals of 2.8 to 3.9, 5.7 to 6.8 and 7.8 to 11.3 $\mu$  are given for humic acids of black earth and strongly podzol soil, fulvoacids from the same soils, and humic acids from the culture of *Aspergillus Niger*. The following bonds were detected: O-H and C-H in aromatic groups (C-H bonds were absent in fulvo-acids of strongly podzol soil), C-H in CH groups, a weak intensity band of C-H in CH<sub>3</sub> groups, C=O in carboxyl groups, and conjugate double bonds C=C. The intensity ratio of the bands C=O and C=C is characteristic of various samples.

Card : 1/2

USSR / Physical Chemistry. Crystals.

B-5

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 25998

Abstract : There is in the spectra of humic acids of the strongly podzol soil and of both the samples of fulvoacids a band of  $6.6\mu$  referred to aromatic groups with lateral alifatic substitutes. In the cases of humic acids from *Aspergillus Niger*, a band of  $8.9\mu$  is observed; this band is characteristic of oxygen containing aromatic compounds, in which the O atom is directly connected with the C atom of the aromatic nucleus (Bregger J.A., Fuel, 1951, 30, 204 - 208). These results do not contradict the known data of x-ray studies of the molecular structure of humic acids and similar carbonized substances.

Card : 2/2



ZILBERBRAND, Yu.

Some problems of the interaction of streetcar rolling stock  
and the track. Zhil.-kom.khoz. 12 no.8:19 Ag '62.

(MIRA 16:2)

(Streetcars)

S/076/63/037/003/016/020  
B101/B215

AUTHORS: Bass, S. I., Zil'berbrandt, A. M., Berlin, A. A.

TITLE: Study of the mechanism for the inhibiting action of compounds containing a system of conjugate bonds on thermal oxidation of low-molecular and polymer hydrocarbons. I. Inhibiting action of acenes on the oxidation of paraffin hydrocarbons

PERIODICAL:: Zhurnal fizicheskoy khimii, v. 37, no. 3, 1963, 682-685

TEXT: This is a report on the inhibiting action of anthracene, naphthacene, and pentacene on the oxidation of cetane and ceresin at 160 and 200°C. The following data are given for the adsorption rate of oxygen in the presence of 8 mmoles/kg of acene in % of the adsorption rate without inhibitor: naphthacene 90 at 160°C, 55 at 200°C, pentacene 65 at 160°C, 78 at 200°C. At 160°C the length of the induction period is affected in the sequence anthracene < naphthacene < pentacene. These results are explained on the basis of energy changes in singlet-triplet transitions. Oxidation is accompanied by the formation of quinones which can be proved

Card 1/2

Study of the mechanism for the ...

S/076/45/037/003/016/020  
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spectroscopically and which also inhibit oxidation. There are 3 figures  
and 1 table.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im.  
M. V. Lomonosova (Moscow Institute of Fine Chemical  
Technology imeni M. V. Lomonosov)

SUBMITTED: May 26, 1962

Card 2/2

BASS, S. I.; ZIL'BERBRANDT, A. M.; BERLIN, A. A.

Mechanism of the inhibiting action of compounds with conjugated bond systems in the thermal oxidation of low-molecular and polymeric hydrocarbons. Part 1. Zhur. fiz. khim. 37 no. 3:682-685  
Mr '63. (MIRA 17:5)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

ZIL'BERBRANDT, O.I.; KAZAKOV, Ye.I.; KASATOCHKIN, V.I.; TYAZHELOVA, A.A.  
(Moskva).

Investigating the composition and properties of bitumen made of  
tars from Volga Valley shales. Izv. AN SSSR. Otd. tekhn. nauk no.2:  
155-158 P '58. (MIRA 11:3)

(Volga Valley--Shale) (Bitumen)

LITVINOV, A. P.; ZIL'BERDRUT, V. D. Engrs

The Substitution of stanmabus bronze by antifriction alloys

Vest Mash p. 24, Oct. 51

LITVINOV., A. P.; ZIL'BERDRUT, V. D.

Alloys

Replacement of stannous bronze with antifrictional alloys. A. P. Litvinov. V.D.  
Zil'berdrut. Vest. mash. 31, No. 10, 1951.

Monthly List of Russian Accessions, Library of Congress, September 1952 UNCLASSIFIED.

LITVINOV, A. P. ; ZIL'BERDRUT, V. D.

Bronze

Replacement of stannous bronze with antifrictional alloys. A. P. Litvinov. V. D. Zil'berdrut. Vest. mash. 31 No. 10 1951.

Monthly List of Russian Accessions, Library of Congress, September 1952 UNCLASSIFIED



LITVINOV, A. F. : ZIL'BERDRUT, V. D.

BRONZE

Replacement of stannous bronze with antifrictional alloys. A. P. Litvinov. V. D. Zil'berdrut. Vest. mash. 31 No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September, 1952, 1953. Unclassified.

LITVINOV, A. P.: ZIL'BERDRUT, V. D.

Alloys

Replacement of stannous bronze with antifrictional alloys. A. P. Litvinov. V. D.  
Zil'berdrut. Vest. mash. 31, No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September, 1952, 1953. Unclassified.

11 AND 2ND GROUPS																										3RD AND 4TH GROUPS																									
PROCESSES AND PROPERTIES INDEX																																																			
<p>CP</p> <p>The technical process of production of ceramic light mold caps. <i>Uteplitel</i>, No. 3, 31-1 (USSR); (<i>Chem. Zash.</i> 1954, 11, 2077). Requirements for such products include resistance to corrosion, heat and high temps.; lightness, rigidity form and cheapness. In the "Uteplitel" plant they are made from clay sand and ceramic fragments and dust, the mass being burned at <math>&gt; 1050^{\circ}</math>. Their use greatly reduces cavity formation in cast steel.</p> <p>M. G. Moore</p>																																																			
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<p><b>The Technological Production of Refractory Floating Mould-Tops.</b> L. Zilberfakh. (Stal, 1938, No. 3, pp. 21-24). (In Russian). Refractory mould-tops are used to prolong the time during which the steel remains liquid; owing to the lower thermal conductivity of the refractory material, the liquid steel feeds the lower solidifying part of the ingot and thus reduces the depth of piping. A brief description is given of the manufacture of these mould-tops at a special works in Russia, reference being made to the clays and other raw materials entering into their composition; the preparation, design, moulding and firing of the mould-tops, with, in conclusion, some details regarding the application of these mould-tops and advantages arising therefrom, are dealt with.</p>																									
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Zilberfarb, L. M., and Memnonova, T. V. DISTRIBUTION OF POROSITY IN SILICA BRICK MOLDED WITH THE WOLF-BUCKAU PRESS. *High-Pressure*, 3 (1964) 21-22. (1964.)  
The density and porosity of Dinas brick shaped in Wolf-Buckau presses are nonuniform, varying 4 and 5%. This nonuniform distribution of pores is accounted for by the construction of the press. Porosity has no effect on the mineralogical composition of silica brick.

Zubersky, L. M. PRODUCING SILICA BRICKS WITHOUT CRACKS. FIGURES. January, 6 (1931-32) (1931).—The study of the production of silica brick without cracks from clon-dony quartzites shows that the fissures occur mostly during the modification of  $\alpha$  quartz into  $\gamma$  cristobalite. The change of the granulometric composition of the sand by lowering the size of grains greatly decreases the formation of cracks.

AUTHOR INDEX

7-35-1 METALLURGICAL LITERATURE CLASSIFICATION

Zilbovich, L. M. TECHNOLOGICAL PRODUCTION OF

REFRACTORY PLUGGING MOLD TOPS. Sov. 1938 (3)

21-24.—Refractory plugging mold tops are used to prolong the time during which the steel remains liquid. They should (1) possess a high mechanical toughness, (2) be sufficiently refractory, (3) have sufficient thermal stability and a high stability against the action of molten steel, and (4) be produced in regular sizes and design at a low price. Their production is described. To obtain mold tops of high quality, light sintered refractory clay should be added to the charge. The tops should be fired at 1050° to 1100°C.

*extra*

ASM, SLA METALLURGICAL LITERATURE CLASSIFICATION

Zilberfarb, I. M. PRODUCING SILICA BRICK WITHOUT FISSURES. *Onepary, 6* (21980-80 (1988)). The study of the production of silica brick without cracks from chalcidony quartzites shows that the fissures occur mostly during the modification of  $\alpha$  quartz into  $\alpha$  cristobalite. The change of the granulometric composition of the mix by lowering the size of grains greatly decreases the formation of cracks.



ZIEBERT, L. M.

AVIRVA INOVA

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Ziebert, L. M. THE INDUSTRIAL PRODUCTION OF REFRACTORY FLOATING MOLD TOPS. *Steel*, 1938, (3) 21-24. Refractory floating mold tops are used to prolong the time during which the steel remains liquid. They should (1) possess a high mechanical toughness, (2) be sufficiently refractory, (3) have sufficient thermal stability and a high stability against the action of molten steel, and (4) be produced in regular sizes and design at a low price. Their production is described. To obtain mold tops of high quality, light sintered refractory clay should be added to the charge. The tops should be fired at 1050° to 1100°C.

1st AND 2nd EDITIONS																
PROCESSING AND PROPERTIES UNIT																
<div style="text-align: right;">19</div> <p>Distribution of porosity in silicon brick molded with the Wolf-Bushen press. I. M. Zilberfarb and T. H. Mejnovichina. Odesk'ye 8, 124-7(1017). K. S.</p>																
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PROCESSING AND PROPERTIES INDEX																			
<p>Spotting of silica brick. T. V. Memnagova and L. M. Zilberfarb. <i>Quartz</i> 5, 613-15 (1937). —Silica brick made from white quartzite uncolored by Fe oxides is white regardless of the CaO content. A 1% CaO content leads to the formation of pseudowollastonite yellow spots. The tridymitization is very small regardless of CaO content. Silica brick from ordinary quartzite contg. Fe oxides has, when 1% of CaO is added, a light yellow color with dark yellow spots. The addn. of 2-3% CaO gives a dark yellow and spotty coloring and a considerable content of pseudowollastonite and Ca ferrite. In the presence of the latter 2 substances the tridymitization is worse; this is characteristic of dark yellow ware. After repeated burning dark yellow ware changes to light yellow, sometimes with small dark yellow spots owing to a nearly complete disappearance of pseudowollastonite and Ca ferrite. The tridymite content increases. Spotty ware attains a homogeneous light yellow color, pseudowollastonite and Ca ferrite disappear, and tridymitization improves. Light yellow ware does not change color; the tridymitization increases. E. E. Stefanowicz</p>																			
<p>ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																			
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ZIL'BERBROD, A.F.

ANDROS, I.P., inzh.; ASSONOV, V.A., kand. tekhn. nauk.; BERNSHTEYN, S.A., inzh.; BOKIY, B.V., prof.; BROVMAN, Ya.V., inzh. BONDARENKO, A.P., inzh.; BUCHNEV, V.K., kand. tekhn. nauk; VERESKUNOV, G.P., kand. tekhn. nauk; VOLKOV, A.F., inzh.; OMLESKUL, M.N., kand. tekhn. nauk; GORODNICHEV, V.M., inzh.; DEMENT'YEV, A.Ya., inzh.; DOKUCHAYEV, M.M., inzh.; DUBNOV, L.V., kand. tekhn. nauk; YEPIFANTSEV, Yu.K., kand. tekhn. nauk.; YERASHKO, I.S., inzh.; ZHENDANOV, S.A., kand. tekhn. nauk; ZIL'BERBROD, A.F., inzh.; ZINCHENKO, M.M., inzh.; ZORI, A.S., inzh.; KAPLAN, L.B., inzh.; KATSAUROV, I.N., dots.; KITAYSKIY, B.F., inzh.; KRAVTSOV, Ye.P., inzh.; KRIVOROG, S.A., inzh.; KRINITSKIY, L.M., kand. tekhn. nauk; LITVIN, A.Z., inzh.; MALEVICH, N.A., kand. tekhn. nauk; MAN'KOVSKIY, G.I., doktor tekhn. nauk; MATKOVSKIY, A.I., inzh.; MINDELI, E.O., kand. tekhn. nauk; NAZAROV, P.P., kand. tekhn. nauk; NASONOV, I.D., kand. tekhn. nauk; MEYENBURG, V.Ye., kand. tekhn. nauk; POKROVSKIY, G.I., prof., doktor tekhn. nauk; PROYAVKIN, E.T., kand. tekhn. nauk; ROZENBAUM, inzh.; ROSSI, B.D., kand. tekhn. nauk; SEMEYSKIY, V.N., doktor tekhn. nauk; SKIRGELLO, O.B., inzh.; SUKHOT, A.A., inzh.; SUKHANOV, A.F., prof., doktor tekhn. nauk; TARANOV, P.Ya., kand. tekhn. nauk; TOKAROVSKIY, D.I., inzh.; TRUPAK, N.G., prof., doktor tekhn. nauk; FEDOROV, S.A., prof., doktor tekhn. nauk; FEDYUKIN, V.A., inzh.; KHOKHLOVKIN, D.M., inzh.; KHRABROV, N.I., kand. tekhn. nauk; CHEKAREV, V.A., inzh.; CHERNAVKIN, N.N., inzh.; SHREYBER, B.P., kand. tekhn. nauk; EPOV, B.A., kand. tekhn. nauk; YAKUSHIN, N.P., kand. tekhn. nauk; YANCHUR, A.M., inzh.; YAKHONTOV, A.D., inzh.; POKROVSKIY, N.M., otvetstvennyy red.; KAPLUN, Ya.G. [deceased], red.; MONIN, G.I., red.; SAVITSKIY, V.T.,  
(Continued on next card)